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COMOR-D-69/32-1

APPROVED FOR  
RELEASE DATE:  
06-Jul-2011

25 May 1967

MEMORANDUM FOR: Committee on Overhead Reconnaissance

SUBJECT: Addition of [ ] Communications  
Requirement to COMOR-D-69/32

1. The SWG has approved the attached requirement for overhead SIGINT collection against the [ ] communications system. The SWG recommends that this requirement be added to Part III, Section C of the basic paper on Satellite SIGINT Intelligence Requirements, COMOR-D-69/32.

2. COMOR will consider the recommendation at its meeting on 1 June 1967.

[ ]  
Executive Secretary  
Committee on Overhead Reconnaissance

Attachment:  
Subject paper

[ ]  
Copy 59 of 60

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COMOR-D-69/32-1  
(Revised)  
(20 June 1967)

A. Part III, Directed: Coverage Category

Justification

25. f. (5) [redacted] communications system is expected to provide intelligence information applicable to a variety of high-priority community requirements.

B. Part III, Section C., COMINT Requirements

Requirement

58. [redacted]

Geographic Coverage

59. Environmental sampling of an initial period of three to six months to permit an evaluation of potential. Upon completion of the evaluation, and if intelligence content merits, maximum coverage will be required in specific areas offering the highest potential.

Technical Parameters

60. Frequency Coverage: 1600 - 2000 mcs.

61. Information Tolerances:

[redacted]

b. Frequency Resolution:  $\pm 1$  mc

c. Location: Within 10 nm

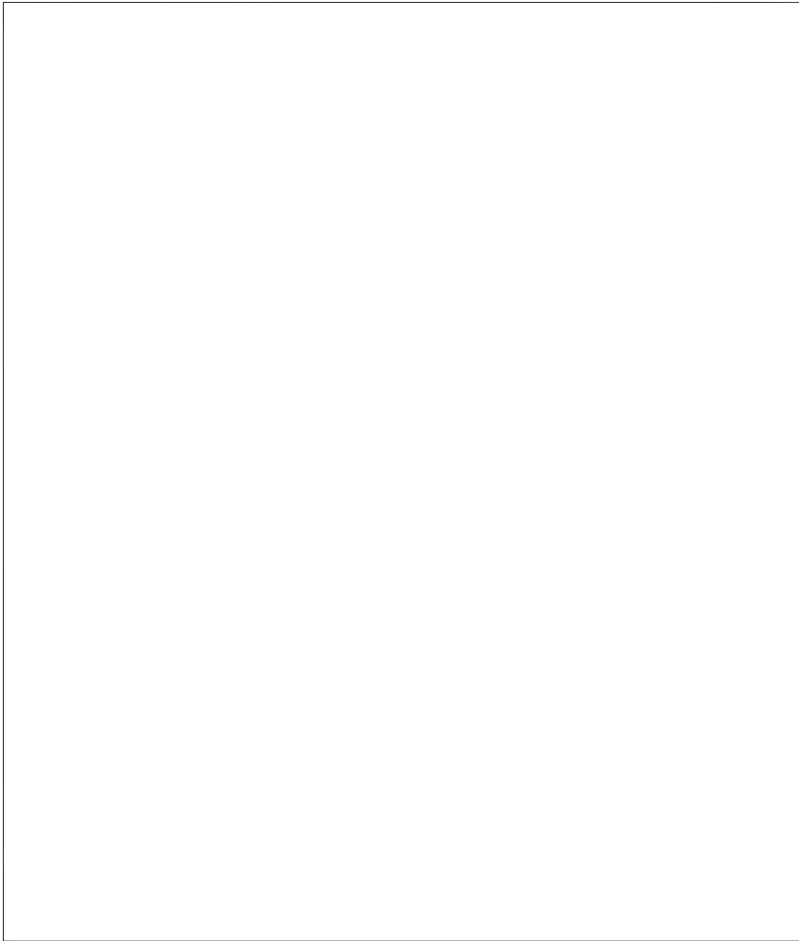
d. [redacted]

22 A

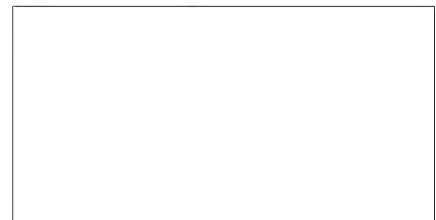
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COMOR-D-69/



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Tab A  
USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution

MEMORANDUM FOR EXECUTIVE SECRETARY, USIB

SUBJECT : Vote Sheet Action

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. With respect to the Recommendation in paragraph 4.  
of  memorandum:

a. I concur therein. \_\_\_\_\_

b. I concur therein, subject to the  
comments or amendments set  
forth in paragraph 2 below. \* \_\_\_\_\_

c. I do not concur in the Recommendation.  
See comments below. \* \_\_\_\_\_

2. Comments or amendments:\*

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Agency)

\*May necessitate classification and control of this memorandum.

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Copy No. [redacted] of 72

USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution

UNITE STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCES : a. [redacted]

- b. USIB-D-41.14/186 (COMOR-D-69/15)  
14 September 1964, Limited Distribution
- c. USIB-D-41.14/181 (COMOR-D-69/13)  
3 September 1964, Limited Distribution

1. The attached memorandum on the subject from the Committee on Overhead Reconnaissance (COMOR), submitting a revised version of reference c. (approval of which was recorded in reference b.), is circulated for consideration by the United States Intelligence Board (USIB) of the COMOR Recommendation contained in paragraph 4. of [redacted] memorandum.

USIB Action Requested

2. It is requested that each member indicate his concurrence in or other views on the Recommendation referred to above by completing and returning the vote sheet at Tab A to the Secretariat by the close of business 23 April 1965.

Attachment [redacted]

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Attachment  
USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution

MEMORANDUM FOR: United States Intelligence Board

SUBJECT: Updating of Current Satellite SIGINT Requirements

REFERENCES: a. [REDACTED]  
b. USIB-D-41.14/186 (COMOR-D-69/15)

1. On 17 March the United States Intelligence Board (USIB) in considering reference a was advised of the need to revise the Board's current satellite SIGINT requirements (reference b).

2. The Committee on Overhead Reconnaissance (COMOR) submits in the attachment for the approval of the Board the revision of current satellite SIGINT requirements. In the preparation of this paper the NRO participated fully and advised that the technical requirements outlined are within the current state-of-the-art and that the statement does provide guidance in a form which is adequate for its operational planning.

3. The significant changes made to reference b are as follows: Clarification of stated objectives, refinements of and additions to parameters: measurement accuracies, restatement of periodicity of coverage, and the inclusion of a new COMINT requirement. The results of this updating are expected to provide higher quality data and to facilitate more

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Attachment  
USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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timely processing and intelligence information reporting against the stated requirements.

4. Recommendation: That the Board approve the attached statement of requirements and forward it to the NRO for satellite SIGINT collection action.

Attachment  
Current Satellite SIGINT Requirements

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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

CURRENT SATELLITE SIGINT REQUIREMENTS

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USIB-D-41, 14/246  
(COMOR-D-69/32)  
15 April 1965  
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Attachment

## Current Satellite SIGINT Requirements

### Introduction

1. This paper presents the United States Intelligence Board's current satellite SIGINT collection requirements. As the NRO develops capabilities and as it manages the operations of those capabilities to meet these requirements, additional collection guidance from the COMOR will be necessary and will be provided as a regular matter.

2. In determining the requirements for satellite SIGINT collection, no reference has been made to a particular system or systems to which the requirements may be assigned. Experience has shown that a system designed to meet one category of requirements can contribute to the satisfaction of other categories.

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IB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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PART I

General Search Category--ELINT

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IB-D-41.14/246

(COMOR-D-69/32)

15 April 1965

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Geographic Coverage and Periodicity of Coverage

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U B-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
(Rev. 15 May 1965).  
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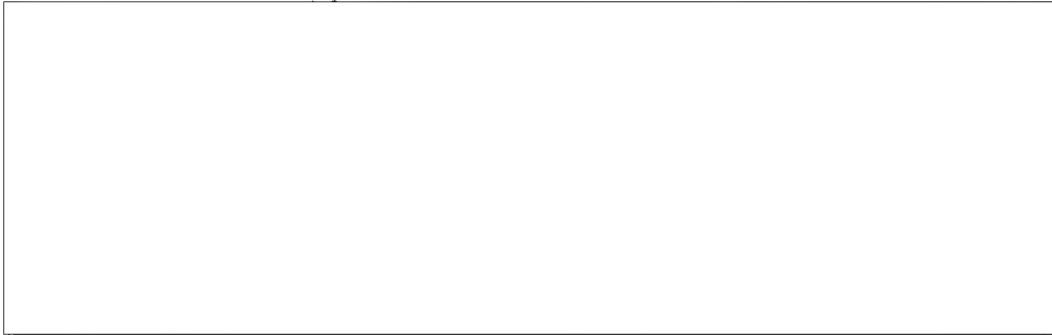
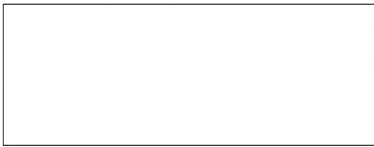
12. Information Tolerances, Pulsed Emitters, ELINT. Information tolerances mandatory for the satisfaction of General Search requirements are marked with an asterisk. The remaining tolerances while not critical are, however, useful and are listed according to their respective merit.


At this time NSA anticipates that in some cases the tolerance requirements will be less stringent, in some cases possibly more. As NSA pursues this study it will work closely with the NRO to insure that the latter has the full benefit of NSA's study and conclusions which will also be reported to COMOP.

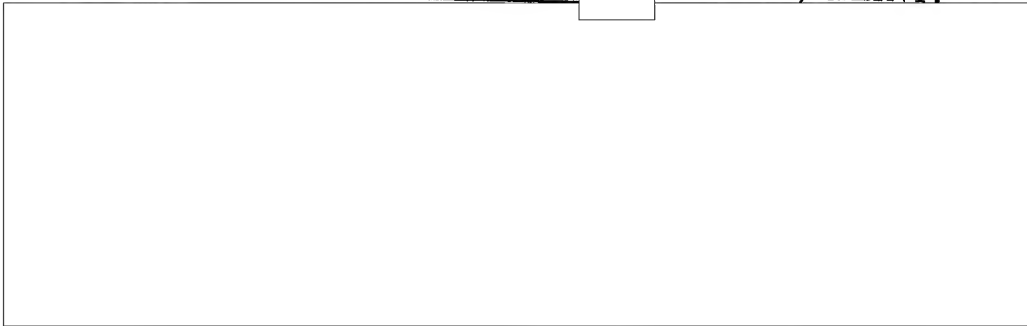
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U B-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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13. Information Tolerances,  Emitters, ELINT.



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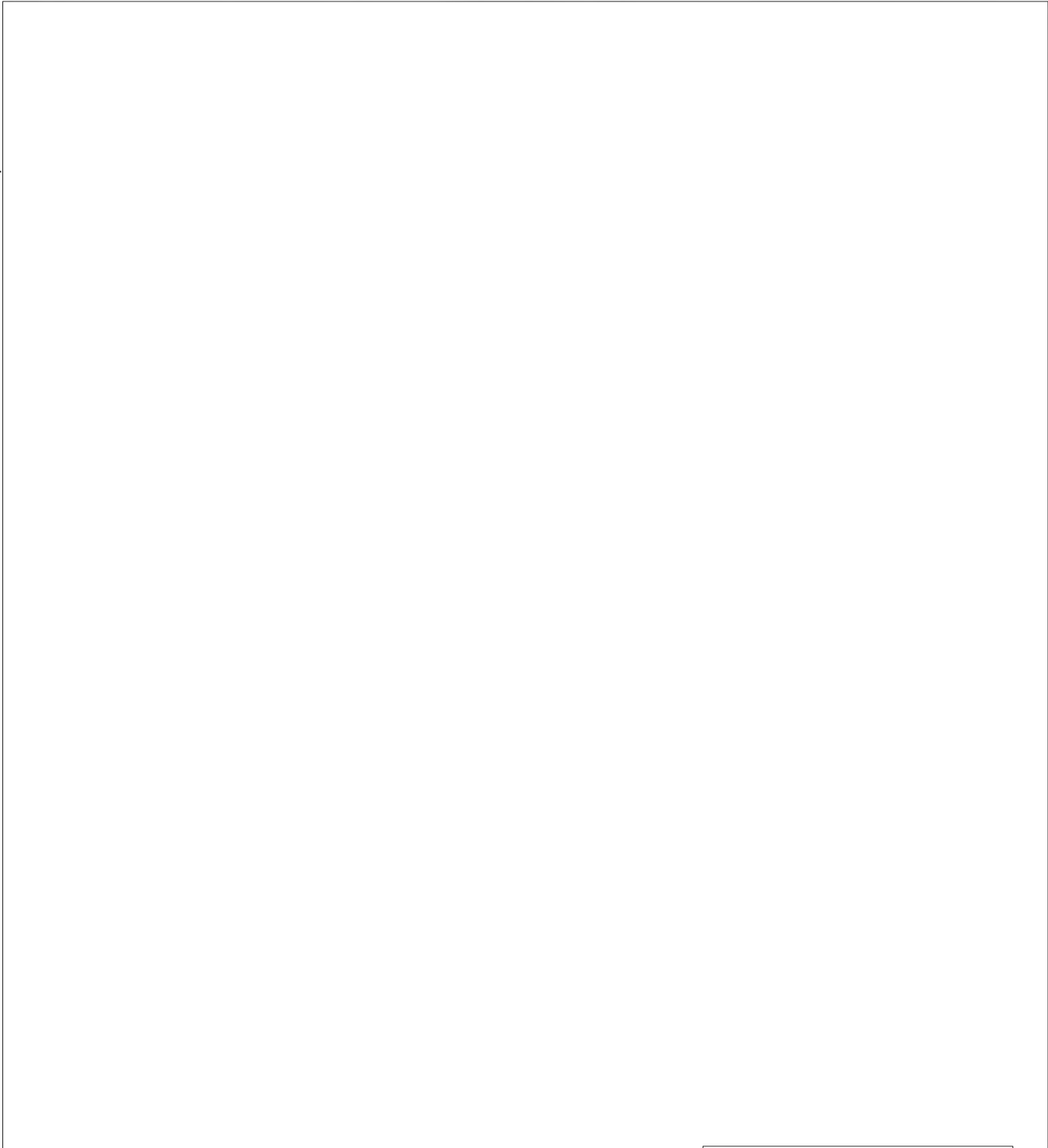




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USC-D-41.14/246  
(COMOR- D-69/32)  
15 April 1965  
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PART II



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US-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

17. The frequency with which collection is undertaken against radar and other electronic emitters is dependent on:

[Redacted]

[Redacted]

Relationship of Objectives to ERL/PCR

19. The objectives relate to Priorities 1A, 1C, 2C, 3A, and 3E.

Geographic Coverage

[Redacted]

[Redacted] specific coverage to be indicated by COMOR collection guidance.

[Redacted]

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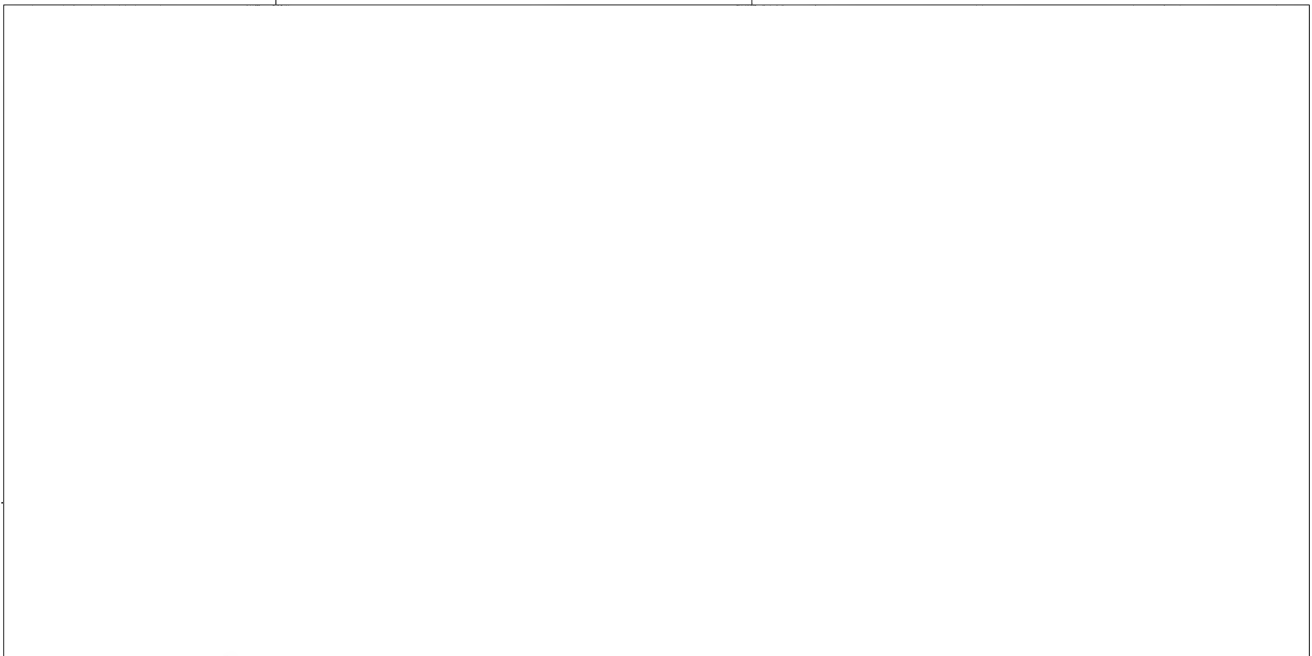
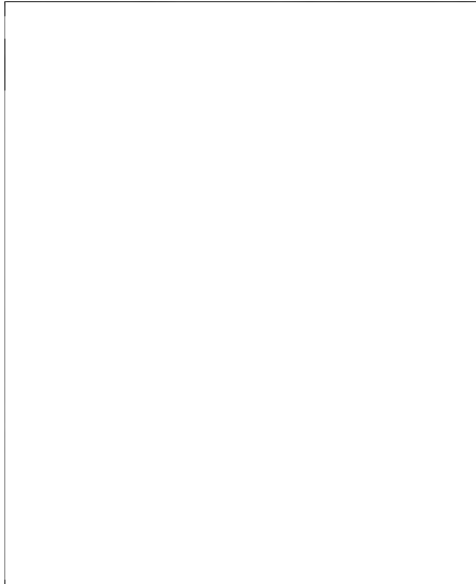
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(COMOR-D-69/32)  
15 April 1965  
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Technical Parameters

22.



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SIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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PART III

Directed Coverage Category

Objective

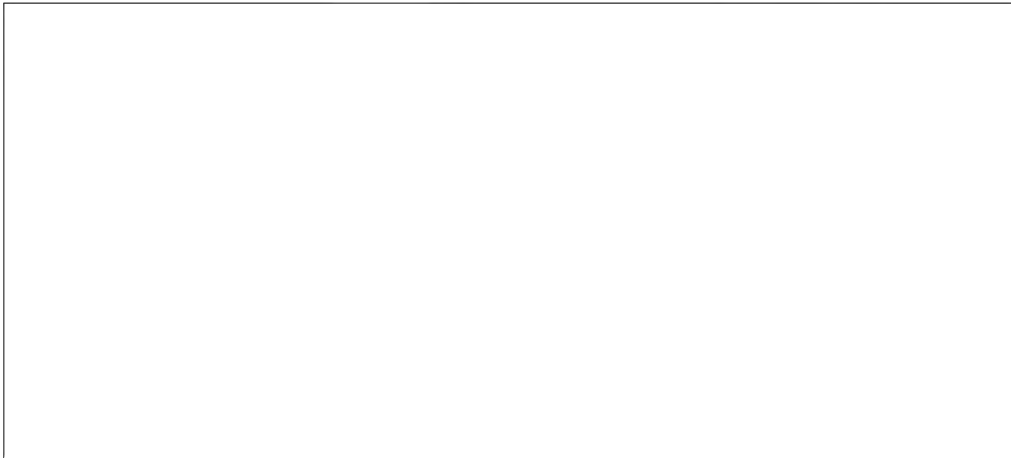
Justification

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IB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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Attachment



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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

Relationship of Objectives to ERL/PCR

26. The objectives relate to:
- a. ERL Priorities 1A, 1B, 2A, 2B, 2C, 3C,  
and 3E.
  - b. PCR Priorities 1B1 and 1B2.

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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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PART III

Section A. ABM/AES Emitters

Objective

[Redacted]

Geographic Coverage

28.

[Redacted]

[Redacted]

31. Information Tolerances:

[Redacted]

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[Redacted]

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(COMOR-D-69/32)  
15 April 1965  
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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

PART III

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is left in place  
there is another  
change.*

Objective

Geographic Coverage

33. [redacted] Specific collection guidance will be  
provided by COMOR.

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USI D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment:  
(Rev. 28 August 1965)

PART III

Objective

Geographic Coverage

33. Primarily [redacted] Specific  
guidance will be provided by COMOR.

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SIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

PART III

Section C. COMINT Requirements

Objective

37. To detect, recognize, locate, and obtain the specified information on the following types of COMINT emitters.

Requirement

38.

Geographic Coverage

39. [redacted] Specific collection guidance to be provided by COMOR.

Periodicity of Coverage

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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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Attachment  
(Revised 12 July 1966)

Requirement

[Redacted]

Geographic Coverage

44. [Redacted] with emphasis on specific areas as directed.

Periodicity of Coverage

[Redacted]

Technical Parameters

[Redacted]

Requirement

[Redacted]

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U B-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment  
(Revised 12 July 1966)

Geographic Coverage

49. [redacted] with emphasis on specific areas as directed.

Periodicity of Coverage

[redacted]

Technical Parameters

[redacted]

Requirement

[redacted]

Geographic Coverage

54. [redacted] with emphasis on specific areas as directed.

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[redacted]

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(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
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Periodicity of Coverage

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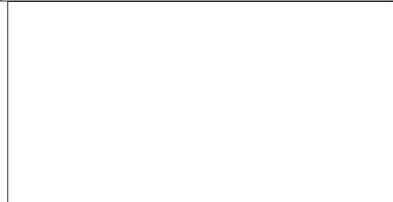
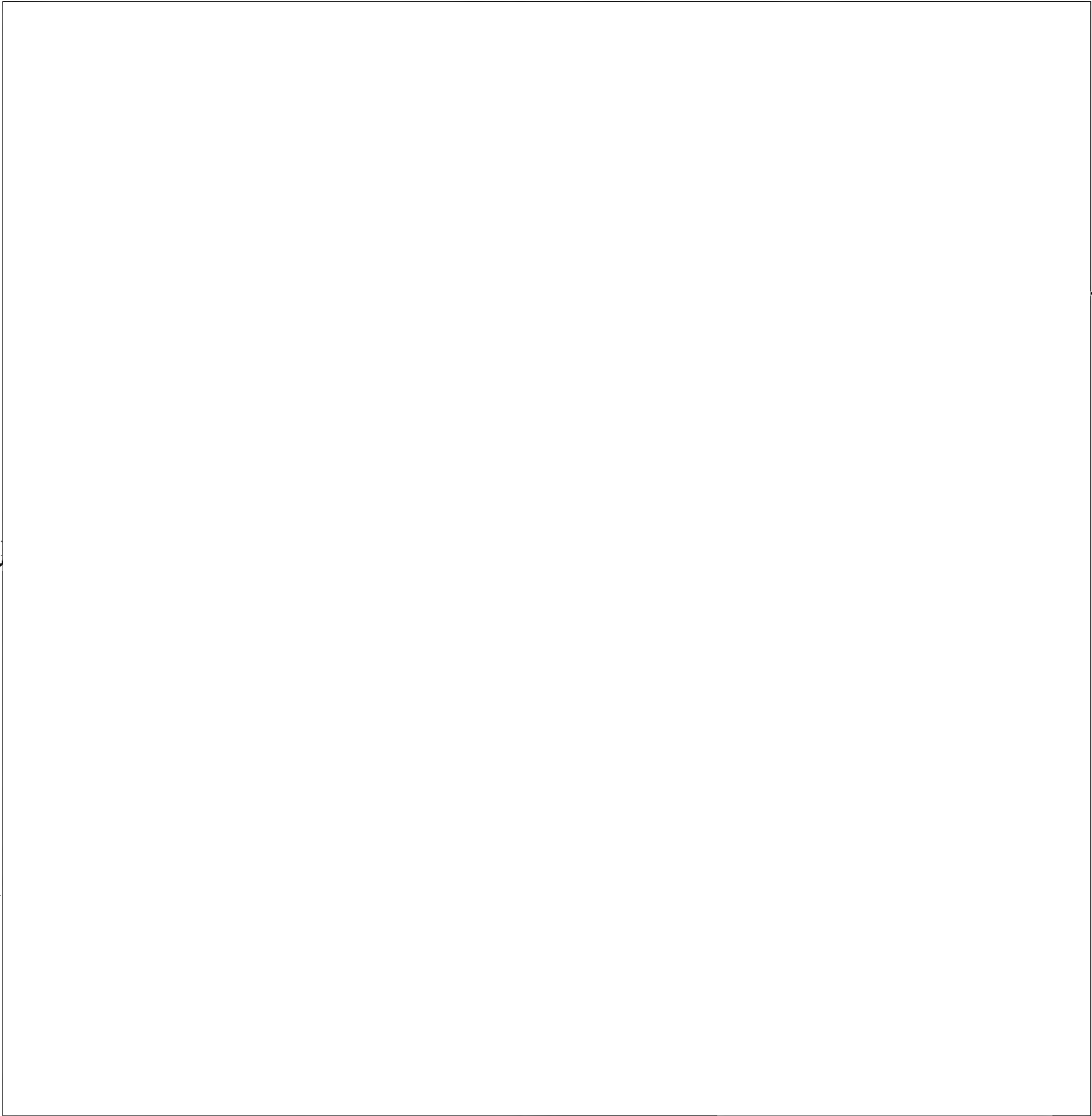
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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution  
Attachment

PART IV



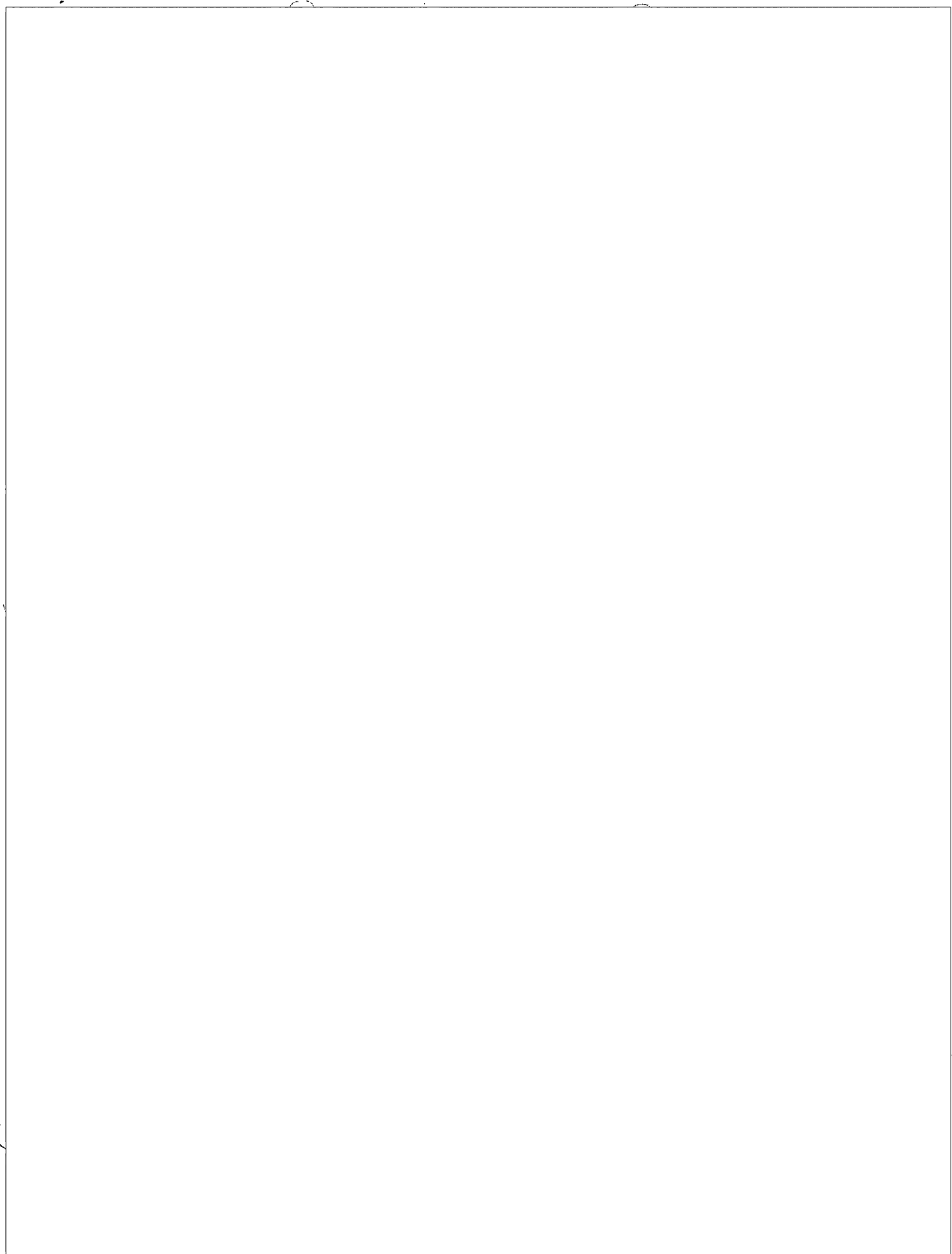
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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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12. 20. 1964



Tab A  
USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution

MEMORANDUM FOR EXECUTIVE SECRETARY, USIB

SUBJECT : Vote Sheet Action

REFERENCE : USIB-D-41.14/246(COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. With respect to the Recommendation in paragraph 4.  
of  memorandum:

a. I concur therein. \_\_\_\_\_

b. I concur therein, subject to the  
comments or amendments set  
forth in paragraph 2 below.\* \_\_\_\_\_

c. I do not concur in the Recommendation.  
See comments below.\* \_\_\_\_\_

2. Comments or amendments:\*

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)


\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Agency)

\*May necessitate classification and control of this memorandum.

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SA *Comore Gen.*  
(COMOR)/DDO  
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15 May 1965  
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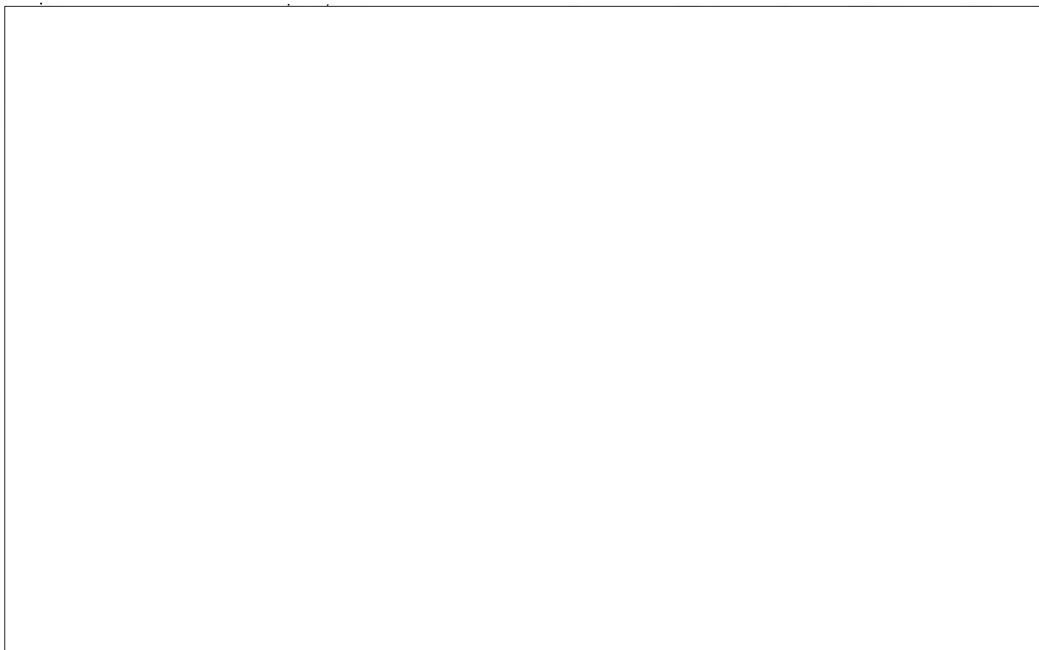
UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. The subject document was distributed to Board members for vote sheet action to be reported to the United States Intelligence Board (USIB) Secretariat by the close of business 23 April 1965, prior to submittal for final action by the Chairman, USIB. In response, all USIB members other than the Chairman concurred; however, the Navy, through the DIA Member, transmitted the following comments:



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Memo for Holders  
USIB-D-41.14/246  
15 May 1965  
Limited Distribution

2. The Committee on Overhead Reconnaissance (COMOR) met on 29 April to consider the comment and agreed, except for the Navy, that the paper should remain as submitted except that as a result of the discussion a revision in the parenthesis under paragraph 12. c. on page 8 should be made. This revision has been incorporated in a revised page 8 which is attached and transmitted for substitution for page 8 in the original document.

COMOR-D-69/32

3. After reviewing the reference paper and the above-mentioned revision by COMOR and the above Navy comments, the Chairman of USIB has approved the revised statement as recommended by COMOR. Accordingly, as of this date the statement of Current Satellite SIGINT Requirements in USIB-D-41.14/246 with the revised page 8 attached hereto is recorded as approved by USIB, and is referred hereby to the National Reconnaissance Office (NRO) for satellite SIGINT collection action.

Attachment  
Revised page 8

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*Cornell Univ.*

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12 July 1966  
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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. The Committee on Overhead Reconnaissance (COMOR) on 8 July 1966 approved an interim revision of the [ ] requirement in Part III, Section C, of USIB-D-41.14/246 (COMOR-D-69/32) dated 15 April 1965. The attached new pages 20 and 21 to the reference incorporate the COMOR changes in paragraphs 48 through 52. In approving this revision COMOR noted that it made the requirement more definitive, but did not impose any additional burden on the National Reconnaissance Office and the SIGINT Satellite Program.

2. COMOR plans to review the entire SIGINT satellite requirement within the next few months at which time it will be submitted for USIB consideration.

3. Unless a Board member requests that this item be placed on the agenda of a USIB meeting prior to the close of business 20 July, it will be recorded as having been "noted" by USIB as of that date and the attached revised pages 20 and 21 will be substituted in all copies of the reference.

Attachment

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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. The Committee on Overhead Reconnaissance (COMOR) on 26 August 1965 approved revisions to Part III, Section B of USIB-D-41.14/246 (COMOR-D-69/32) dated 15 April 1965. These revisions include paragraphs 32, 33, 34, 35 and 36 on page 18 and are designed

2. Unless a Board Member requests that this item be placed on the agenda of a USIB meeting prior to the close of business 3 September 1965, it will be recorded as having been "noted by the USIB" as of that date and the attached revised page 18 will be substituted for that presently held.

Attachment

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Comor Sen.

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12 July 1966  
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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
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28 August 1965  
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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

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*done*

Attachment

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SA *Comore Gen.*  
40 (COMOR)/DDSS  
Conv No. of 72

15 May 1965  
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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR HOLDERS OF USIB-D-41.14/246

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCE : USIB-D-41.14/246 (COMOR-D-69/32)  
15 April 1965, Limited Distribution

1. The subject document was distributed to Board members for vote sheet action to be reported to the United States Intelligence Board (USIB) Secretariat by the close of business 23 April 1965, prior to submittal for final action by the Chairman, USIB. In response, all USIB members other than the Chairman concurred; however, the Navy, through the DIA Member, transmitted the following comments:

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Memo for Holders  
USIB-D-41.14/246  
15 May 1965  
Limited Distribution

2. The Committee on Overhead Reconnaissance (COMOR) met on 29 April to consider the comment and agreed, except for the Navy, that the paper should remain as submitted except that as a result of the discussion a revision in the parenthesis under paragraph 12.c. on page 8 should be made. This revision has been incorporated in a revised page 8 which is attached and transmitted for substitution for page 8 in the original document.

*COMOR-D-69/32*

3. After reviewing the reference paper and the above-mentioned revision by COMOR and the above Navy comments, the Chairman of USIB has approved the revised statement as recommended by COMOR. Accordingly, as of this date the statement of Current Satellite SIGINT Requirements in USIB-D-41.14/246 with the revised page 8 attached hereto is recorded as approved by USIB, and is referred hereby to the National Reconnaissance Office (NRO) for satellite SIGINT collection action.

Attachment  
Revised page 8

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Copy No. of 72

USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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*Director signed off on this 15 May.*

*(Margaret USIB called 18 May)*

*see 12 July 1966 Memo for Hqs.  
and 28 Aug 1965 " " "*

UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : Updating of Current Satellite SIGINT Requirements

REFERENCES : a.

- b. USIB-D-41.14/186 (COMOR-D-69/15)  
14 September 1964, Limited Distribution
- c. USIB-D-41.14/181 (COMOR-D-69/13)  
3 September 1964, Limited Distribution

1. The attached memorandum on the subject from the Committee on Overhead Reconnaissance (COMOR), submitting a revised version of reference c. (approval of which was recorded in reference b.), is circulated for consideration by the United States Intelligence Board (USIB) of the COMOR Recommendation contained in paragraph 4. of [redacted] memorandum.

USIB Action Requested

2. It is requested that each member indicate his concurrence in or other views on the Recommendation referred to above by completing and returning the vote sheet at Tab A to the Secretariat by the close of business 23 April 1965.

Attachment

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Attachment  
USIB-D-41. 14/246  
(COMOR-D-69/32)  
15 April 1965  
Limited Distribution

MEMORANDUM FOR: United States Intelligence Board

SUBJECT: Updating of Current Satellite SIGINT Requirements

REFERENCES: a.   
b. USIB-D-41. 14/186 (COMOR-D-69/15)

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2. The Committee on Overhead Reconnaissance (COMOR) submits in the attachment for the approval of the Board the revision of current satellite SIGINT requirements. In the preparation of this paper the NRO participated fully and advised that the technical requirements outlined are within the current state-of-the-art and that the statement does provide guidance in a form which is adequate for its operational planning.

3. The significant changes made to reference b are as follows: Clarification of stated objectives, refinements of and additions to parameters: measurement accuracies, restatement of periodicity of coverage, and the inclusion of a new COMINT requirement. The results of this updating are expected to provide higher quality data and to facilitate more

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Attachment  
USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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timely processing and intelligence information reporting against the stated requirements.

4. Recommendation: That the Board approve the attached statement of requirements and forward it to the NRO for satellite SIGINT collection action.

Attachment  
Current Satellite SIGINT Requirements

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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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CURRENT SATELLITE SIGINT REQUIREMENTS

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USIB-D-41.14/246  
(COMOR-D-69/32)  
15 April 1965  
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Attachment

## Current Satellite SIGINT Requirements

### Introduction

1. This paper presents the United States Intelligence Board's current satellite SIGINT collection requirements. As the NRO develops capabilities and as it manages the operations of those capabilities to meet these requirements, additional collection guidance from the COMOR will be necessary and will be provided as a regular matter.

2. In determining the requirements for satellite SIGINT collection, no reference has been made to a particular system or systems to which the requirements may be assigned. Experience has shown that a system designed to meet one category of requirements can contribute to the satisfaction of other categories.

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PART I

General Search Category--ELINT

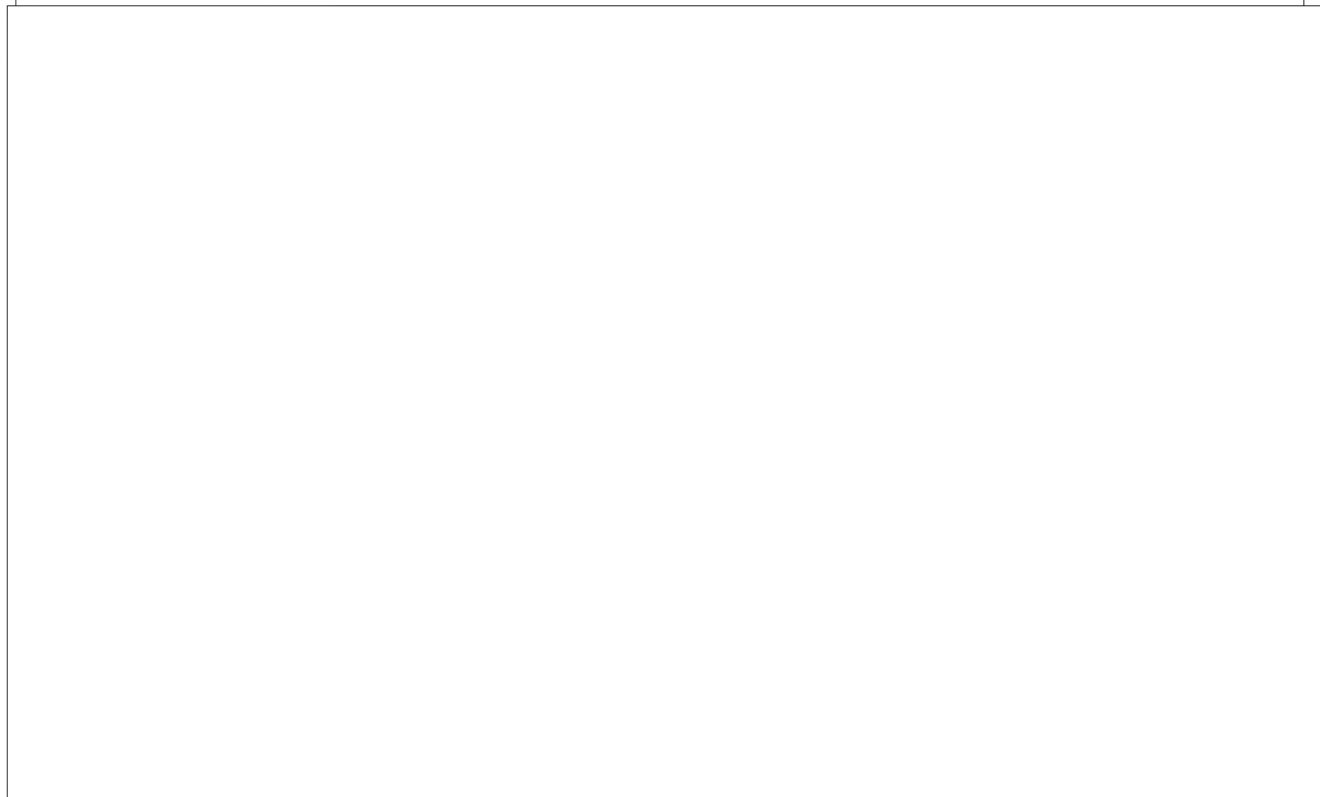
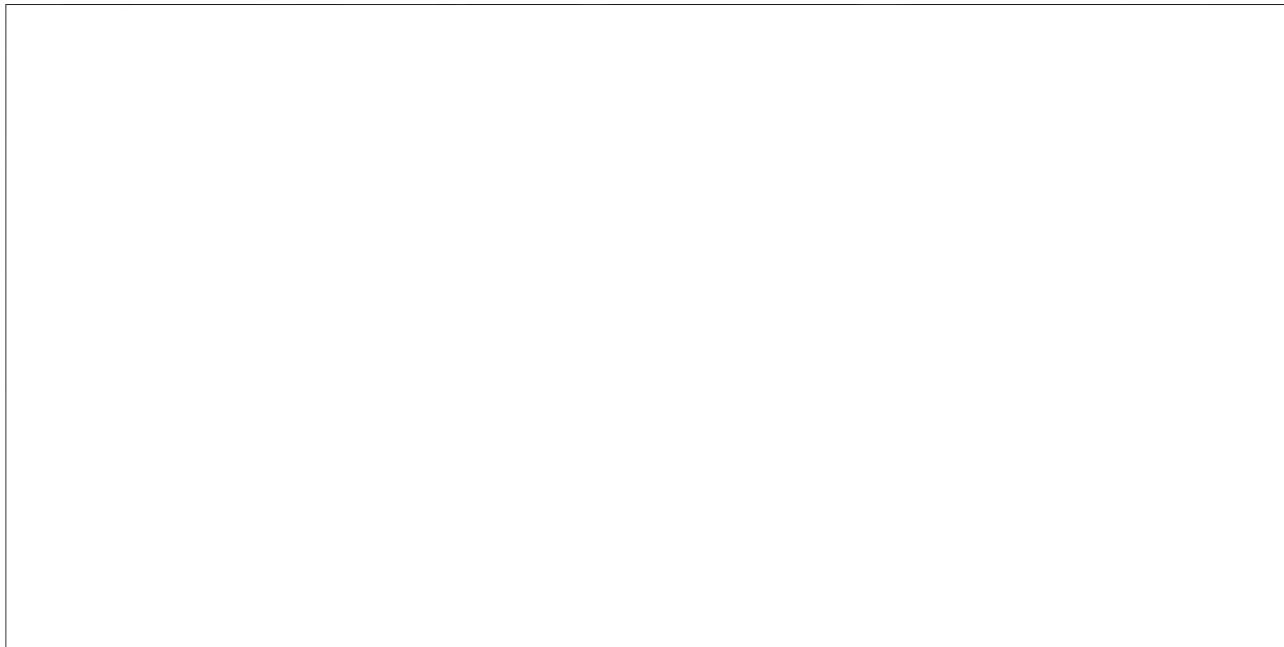
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Geographic Coverage and Periodicity of Coverage



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13. Information Tolerances, ☐ Emitters, ELINT.

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PART II

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17. The frequency with which collection is undertaken against radar and other electronic emitters is dependent on:

[Redacted]

[Redacted]

Relationship of Objectives to ERL/PCR

19. The objectives relate to Priorities 1A, 1C, 2C, 3A, and 3E.

Geographic Coverage

20. [Redacted]

[Redacted] Specific coverage to be indicated by COMOR collection guidance.

[Redacted]

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[Redacted]

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Technical Parameters

22.



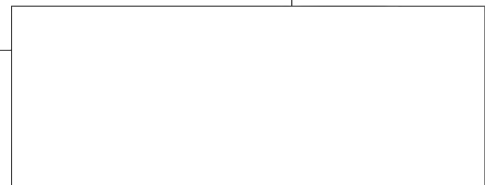
23. Information Tolerances:



At this time NSA anticipates that in some cases the tolerance requirements will be less stringent, in some cases possibly more. As NSA pursues this study it will work closely with the NRO to insure that the latter has the full benefit of NSA's study and conclusions which will also be reported to COMOR.)



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PART III

Directed Coverage Category

Objective

Justification

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Justification

Relationship of Objectives to ERL/PCR

26. The objectives relate to:
- a. ERL Priorities 1A, 1B, 2A, 2B, 2C, 3C,  
and 3E.
  - b. PCR Priorities 1B1 and 1B2.

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PART III

Section A.

Objective

Geographic Coverage

~~TOP SECRET~~

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PART III

Objective

Geographic Coverage

33. Primarily [ ] - Specific guidance will be provided by COMOR.

Periodicity of Coverage

34. There should be an in-orbit capability available at all times for tasking on demand against geographic areas as specified above.

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PART III

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there is another  
change.*

Objective

Geographic Coverage

33. [ ] Specific collection guidance will be  
provided by COMOR.

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PART III

Section C. COMINT Requirements

A

Objective

37. To detect, recognize, locate, and obtain the specified information on the following types of COMINT emitters.

Requirement

Geographic Coverage

39. [ ] Specific collection guidance to be provided by COMOR.

Periodicity of Coverage

Technical Parameters

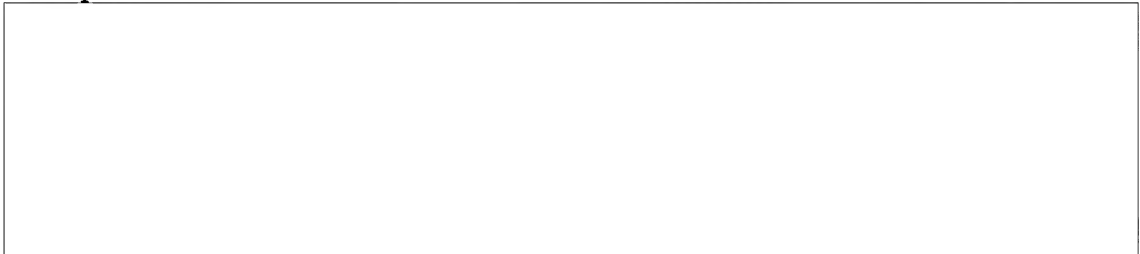
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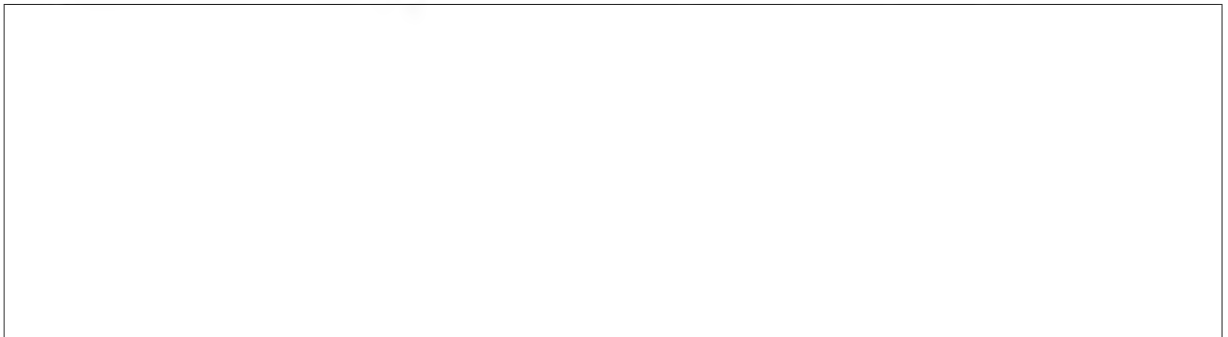
Requirement



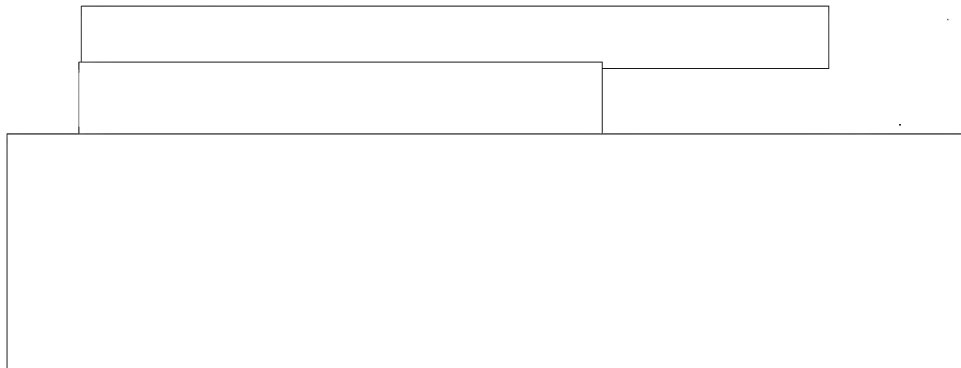
Geographic Coverage

44.  with emphasis on specific areas as directed.

Periodicity of Coverage



Technical Parameters



Requirement



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Geographic Coverage

49. [redacted] with emphasis on specific  
areas as directed.

Periodicity of Coverage

[redacted]

Technical Parameters

51.

[redacted]

52.

[redacted]

[redacted]

Requirement

[redacted]

Geographic Coverage

54. [redacted] with emphasis on specific areas as  
directed.

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Periodicity of Coverage

Technical Parameters

56.

57.

Requirement

Geographic Coverage

Technical Parameters

60.

61.

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